

PROJECT: Midnite Mine Remediation**REPORT NO:** 2021-14**OWNER:** Newmont/Dawn Mining**OPERATOR:** Newmont/Dawn Mining**SUMMARY OF WORK ACTIVITIES OR EVENTS FOR THIS REPORTING PERIOD:**

This weekly report provides a summary of Midnite Mine Site (Site) remediation action (RA) construction activities, quality assurance (CQA), quality control (CQC) and engineering activities for the period June 25 – July 1, 2021. The Site activities discussed in this weekly report include, but are not limited to: Site Health, Safety, and Security; Community Liaison, Project Meetings, Regulatory Oversight, Site Visitors; Site Mobilization; RA Activities; Project Documentation; and Site Inspections.

The project SharePoint site includes the Project documentation discussed in this report. Access to the project SharePoint site is available at the following link: (b) (6)

SITE HEALTH, SAFETY, AND SECURITY

MIDNITE MINE HEALTH & SAFETY SUMMARY: Reporting Period June 25 – July 1, 2021			
FIRST AID INJURY	0	PROPERTY DAMAGE	0
MEDICALLY TREATED INJURY	0	NEAR MISS INCIDENT	0
RESTRICTED WORK INJURY	0	RADIATION PROTECTION PLAN (RPP) – ISSUES REPORTED	0
LOST TIME INJURY	0		
Comments: there were no injuries or incidents this week.			

COMMUNITY LIAISON

- Community notifications continue to be sent to Mr. Sherwood for site equipment deliveries and WTP Solids transport.

PROJECT MEETINGS, REGULATORY OVERSIGHT, AND SITE VISITORS**Weekly Progress Meeting:**

The following stakeholders attended the Weekly Construction Progress meeting via a conference call on Wednesday, 30 June 2021 at 10:00;

- EPA
- Spokane Tribe of Indians
- Army Corps of Engineers (USACE)
- Dawn Mining Company (DMC)/Newmont
- WME
- AJAX
- Stantec

Meeting Action Items:

- Confirmed project update meeting with EPA and Spokane Tribe of Indians on 19-21 July 2021
- Confirmed soil verification sampling scheduled for week of 19 July 2021 for South Construction Support Zone Final Status Survey Work Plan and Pit 4 Overburden Upper Area Final Status Survey Work Plan

EPA Plan/Document Approvals:

- None

Regulatory Site Visit(s):

- Mark Fillius, USACE, was on Site on 28 June through July 1.

REMEDIAL WORK ACTIVITIES

Construction:

During the week of June 25 – July 1, 2021, the following activities were conducted:

- Newmont excavated, hauled and placed low activity/low reactivity material from the west side of the South Waste Rock Pile (SWRP), the Pit 4 Overburden Pile, and the South Construction Support Zone (CSZ). Newmont placed these materials in the Pit 4 Waste Containment Area (WCA).
- Newmont extended the West Infiltration Collectors.
- WME and Nile Environmental performed the Final Status Survey gamma scan of the South Construction Support Zone on 26 June. CQC and CQA personnel confirmed that areas with elevated gamma levels are associated with bedrock and do not contain visible mine waste.
- SLV Earthmovers continued crushing and screening material from the Hillside Waste Rock Pile (HSWRP) to produce Drain Gravel, Liner Bedding and Geomembrane Bedding Material. Newmont hauled these materials to stockpile locations designated in the 2021 Crushing and Stockpiling Work Plan (Stantec, 2021). Estimated quantities of materials produced are presented in Table 1.
- Collection of Quality Control samples from the crushing and screening operation continued with samples of Drain Gravel, Liner Bedding, and Geomembrane Bedding Material submitted to Budinger and Associates for gradation analysis.
- Stantec performed Method 9 visible emissions observations at the crushing and screening operation on the HSWRP on 29 June. Visible dust from the crushing operation conformed with project requirements.
- Northwest Linings installed four patches on the primary liner in the west cell of the South Pond on 1 July. Newmont began transferring water from the east cell to the west cell following installation of the patches.
- Northwest Linings installed half pipe “curbs” along the crest of the ponds to each side of the riser pipes. The curbs are intended to reduce the amount of soil and rock from the berm from entering the pond.
- Hi-Tech Rockfall paused the installation of the attenuator systems on the west side of the Pit 3. Hi-Tech Rockfall did not work at site 28 June through 2 July due to the extreme heat.
- Stantec performed South Pond Embankment Stability inspection on 2 July. The embankment remains stable, movement monitoring points remain within tolerance, and water level in the South Pond Piezometer is below pumping level. Ground water level in the South Pond piezometer was monitored daily and remains below action level.
- Budinger and Associates installed a vibrating wire transducer in the South Pond piezometer. The datalogger was started on 1 July with water level recorded every 6-hours.
- Newmont welded 10-inch HDPE pipe for the Pit 3 dewatering system.
- Halme Construction continued to fuse HDPE pipe for the effluent pipeline.
- Halme Construction continued clearing and grubbing the effluent pipeline alignment along the New Access Road.
- Halme Construction began screening native soils from the pipeline alignment along the New Access Road for possible use as bedding material.
- M+L Construction installed the effluent pipeline under West End Road using Horizontal Directional Drilling (HDD) on 28 June.

Table 1 – 2021 Production Estimates

Material	Reporting Period			Year-to-date			Annual % Complete
	Planned Production (yd³)	Estimated Volume¹ (yd³)	% of Planned	Planned Production (yd³)	Estimated Volume¹ (yd³)	% of Planned	
Haulage to Pit 4							
SWRP	17,919	43,176	241%	333,442	477,008	134%	63%
Pit 4 Overburden	14,700	20,496	139%	112,420	294,476	262%	88%
Total	32,619	63,672	195%	445,862	771,484	173%	68%
Aggregate Production							
Drain Gravel	8,500	7,679	90%	117,300	83,585	71%	28%
Liner Bedding	0	1,138	--	8,610	7,945	92%	86%
Geomembrane Bedding	8,500	9,393	111%	117,300	87,107	74%	23%
Total	17,000	18,210	107%	243,210	178,637	73%	26%

1 - Truck load assumed to be 27 yd³

Stormwater Pollution Prevention Plan (SWPPP)

- SSEC-Apex hydroseeded and mulched the New Topsoil Pile on 30 June.
- Newmont continued installing a diversion channel along the east edge of the Pit 4 Overburden Pile.
- Halme Construction installed BMPs along the effluent pipeline alignment between West End Road and Blue Creek Road and along Blue Creek Road.

Spill Prevention, Control, and Countermeasure Activities (SPCC)

- Approximately 15 gallons of Transmission, Drive Train Oil (TDTO) spilled from the left, middle axle wheel of a haul truck when the wheel seal failed on 29 June. The truck was shut down as soon as the leak was observed and absorbent pads were placed to absorb the leakage. Impacted soils were disposed of in Pit 4.

Equipment Mobilized/Demobilized and Material Delivered

The following equipment was mobilized to the Site during this reporting period.

- Halme Construction soil screen.

The following equipment was demobilized from the Site during this reporting period.

- None.

All project owned non-road diesel equipment on Site is US-EPA Tier 4 compliant. On-site rental equipment and subsequent deliveries of rental equipment may be less than Tier 4 and will be assessed at the time of delivery.

Materials:

The following material was delivered to the Site during this reporting period.

- Culverts for Blue Creek and New Access Roads.

CONSTRUCTION QUALITY ASSURANCE

Dust Control and Monitoring

Seven dust monitors operated on site at the locations and for the time intervals listed in Table 2 below. There was no exceedance of the TSP action level ($>260 \mu\text{g}/\text{m}^3$) during this time-period.

Bison Engineering (Bison) was on site Tuesday (6/29/2021) to conduct monthly dust monitor calibrations and the quarterly meteorological station calibration. In addition to calibrations, Bison relocated sampler ES-8 to the north end of the New Access Road (NAR) to monitor construction activities associated with the NAR and the Effluent Pipeline construction.

Table 2 - TSP Dust Monitoring Locations during reporting period June 25 – July 1, 2021

Monitor ID	Location Description	Start Date	Status						
			Fri	Sat	Sun	Mon	Tue	Wed	Thurs
ES-1 (stationary)	Midnite Mine Top of Pit 4	03/23/21	D/N			D/N	D/N	D/N	D/N
ES-2 (stationary)	Midnite Mine Southeast Boundary	03/23/21	D/N			D/N	D/N	D/N	D/N
ES-3 (stationary)	Midnite Mine West Boundary	03/23/21	D/N			D/N	D/N	D/N	D/N
ES-4 (roving)	Northeast Side of the SCSZ	04/16/21	D/N			D/N	D/N	D/N	D/N
ES-5 (roving)	Northeast of the Mid-SWRP	03/24/21	D/N			D/N	D/N	D/N	D/N
ES-6 (roving)	East of HSWRP above High Road	03/23/21	D/N			D/N	D/N	D/N	D/N
ES-7 (roving)	Northeast of HSWRP at Pit 4	03/23/21	D/N			D/N	D/N	D/N	D/N
ES-8 (stationary)	NAR ~Station 14+00	06/29/21	O			O	N	D/N	D/N
D=Day Shift (6:00 am to 4:30 pm) N=Night Shift (4:00 pm to 2:30 am) E=Environmental conditions (fog, smoke, pollen, heavy rain, etc.) O=Off - Special Circumstances * Equipment malfunction (Battery/Power Supply or Other)									

Project Documentation

Project CQA-CQC Field Acceptance Forms, Engineering Change Notices (ECNs), Design Clarification Notices (DCNs), Non-Compliance Notifications (NCNs), Requests for Information (RFIs), Submittals, and Other Items received during this time-period are shown in the table below:

CQA Documentation

CQC-CQA Field Acceptance Forms			
Acceptance No.	Title		CQC-CQA Issue Date
None			
Project DCNs			
DCN No.	Title	Submittal Date	EPA Response Date
None			
Project ECNs			
ECN No.	Title	Submittal Date	EPA Response Date
2021-01	Monitoring and Control of Phreatic Levels in the South Pond Embankment	3/19/2021	Conditional Approval Received on 5/11/2021

	Dewatering well pump test was conducted on Friday (5/28/2021).		
	EPA Comments – <i>Provide a summary report of findings with a final plan for dewatering. If dewatering is necessary, include a schedule for dewatering.</i>		
2021-02	Modifications to Pit 3 Underdrain and Dewatering Sumps	6/8/2021	EPA - TBD
Notice of Non-Compliance			
NNC No. and Dates	Title/Description	CQA	CQA/EPA Response Date(s)
None			
Project RFIs			
RFI No.	Title	CQC Submittal Date	CQA/EPA Response Date(s)
2021-04	Earthen Berm Pipe Anchor	5/26/2021	CQA - 6/4/2021 EPA – Disapproved 6/4/2021
2021-04, Rev 1	Revised RFI Received 6/25/2021		CQA 6/25/2021 EPA – TBD
HC-2021-05	Use of Low-Pressure Air Test Instead of Hydrostatic Test Effluent Pipeline	6/7/2021	CQA – 7/1/2021 EPA - TBD
	Engineer's Response Received 6/17/2021	6/17/2021	
HC-2021-06	NAR Lead-Off Crossing and Pipeline Alignment Adjustment Effluent Pipeline	6/17/2021	CQA – TBD EPA - TBD
	Design Engineer's Response Received 6/29/2021		
HC-2021-07	Alignment Offset Variance Request for Area South of West End Road Effluent Pipeline	6/17/2021	CQA – TBD EPA - TBD
	Design Engineer's Response Received 6/29/2021		
HC-2021-08	Use of Native Materials for Bedding Source Effluent Pipeline	6/29/2021	CQA – TBD EPA - TBD
	Waiting for Response Based on Input by STOI		
HC2021-09	Use of Alternative Testing Method for Radium 226 Effluent Pipeline	6/29/2021	CQA – TBD EPA - TBD
Submittals			
Submittal No.	Title	CQC Submittal Date	CQA/EPA Response Date(s)
01300-04	Rockfall Mitigation Material Information for Pit 3	5/4/2021	CQA Acceptance 5/27/2021
	Received Manufacturer's Certification Letters from Geobruigg and Williams Form w/r/t MTRs on 6/23/2021	6/23/2021	EPA - TBD

02970-06.1	Revised - Midnite Mine Permanent Seed Mix List <i>Due to lack of availability – substitute different varieties of the same species.</i>	6/7/2021	CQA – 6/15/2021 EPA – TBD
HC-01575-02.1	Addendum to SPCC – Fuel Tanks Effluent Pipeline <i>EPA returned with Comments – Discuss with EPA</i>	6/10/2021	CQA – 6/14/2021 EPA - TBD
HC-02593-01.2	Engineered Manhole Drawings Effluent Pipeline <i>Stantec approved with comments on 6/28/2021</i>	6/23/2021	CQA – TBD EPA - TBD
HC-02200-01.1	Gradation Samples for Top/Base Course Effluent Pipeline	6/17/2021	CQA – 6/21/2021 EPA - TBD
02272-15	South Pond Geomembrane – 2021 Liner Repairs	6/21/2021	CQA – TBD EPA - TBD
HC-02594-01.1	Calibration Certification for Halme Datalogger Effluent Pipeline	6/18/2021	CQA – 6/23/2021 EPA - TBD
HC-02593-01.1	Rings and Lids for Manholes Effluent Pipeline	6/24/2021	CQA – TBD EPA - TBD
HC-02200-03.1	Native Screen Bedding Sample Analysis Effluent Pipeline <i>Gradation Under Review by Design Engineer</i>	6/24/2021	CQA – TBD EPA - TBD
Other Items			
Item	Title	Comments	
GW-54	Hydrostatic Pressure Test for GW-54 Pipeline (3-inch DR11 HDPE Pipe)	CQA Approved 6/22/2021	
CQC/CQA Acceptance Form 2021-08	West Infiltration Collection System – Main Channel (Section 10) Subgrade Inspection	CQA Approved 6/22/2021	
CQC/CQA Acceptance Form 2021-09	West Infiltration Collection System – Finger Drain 2 (Section 10) Subgrade Inspection	CQA Approved 6/23/2021	
CQC/CQA Acceptance Form 2021-10	West Infiltration Collection System – Finger Drain 3 (Section 5) Subgrade Inspection	CQA Approved 6/23/2021	

Copies of the updated CQA Logs are located on the project SharePoint site under the 2021 CQA Folder.

Site Inspections

Details regarding the four-phase CQA observation/inspection process for each definable work feature are summarized below and are further detailed in the daily CQC/CQA reports that are available on the project SharePoint site.

Preparatory Inspections / Meetings

- South CSZ FSS Meeting

Initial Phase Inspections

- South CSZ Preliminary Gamma Scans Conducted

Follow-up Phase and Ongoing Inspections

- South CSZ FSS Conducted – Additional excavation required
- South Pond – Liner repairs conducted in the West Cell
- Mine Waste Placement in Pit 4 – Low activity/low reactivity material from the SWRP, Middle Overburden Pile and South CSZ materials placed - no restrictions on placement.
- Pit 3 Dewatering Pipe – Pipe welds/reports for 10-inch DR11 HDPE Pipe
- Hydrostatic Pressure Test - GW-54 3-inch DR11 HDPE Pipe
- Dust Monitoring System – Tracking site-wide alerts and alarms
- Relocated SW Topsoil Stockpile – Hydroseeding completed
- Periodic observations on placement of construction debris/trash in the Pit 4 WCA.
- Effluent Pipeline – HDPE pipe welds/reports
- Effluent Pipeline – Directional drilling and pipe placement at West End Road
- Effluent Pipeline - Small diesel spill observed along (< 2 gallons)

Completion Inspections

- None

THREE WEEK LOOKAHEAD SCHEDULE

A copy of the Three Week Lookahead Schedule is provided as Attachment A.

Report completed and submitted by:
<u>Andrew Liffing, P.E.</u> <u>Project Construction Director</u>
Attachments <ul style="list-style-type: none">• Attachment A – Midnite Mine 3 Week Lookahead Schedule
Photos of pertinent items are provided below.



Figure 1 – Excavating, loading and hauling of low activity/low reactivity material from the South Waste Rock Pile – Mid.



Figure 2 – Progress of excavation at the Pit 4 Overburden Pile.



Figure 3 – Excavation, loading and hauling of low activity/low reactivity material from the Pit 4 Overburden, view looking east.



Figure 4 – Progress of surface grading at the Pit 4 Overburden.



Figure 5 – Crushing and screening operations at the HSWRP.



Figure 6 – Detail view of rockfall protection drape installed in Pit 3.



Figure 7 – Checking “hot spots” in the CSZ to verify that all visible mine waste had been removed in those locations.



Figure 8 – SSEC-Apex hydroseeding the New Topsoil Pile.



Figure 9 – Northwest Lining crew extrusion welding patch under pump riser in the west cell of the South Pond.



Figure 10 – Northwest Linings vacuum box testing the patch placed under the riser pipe.



Figure 11 – Half-pipe curbs installed at the South Pond crest.

ATTACHMENT A

MIDNITE MINE THREE WEEK LOOKAHEAD SCHEDULE

Activity ID	Activity Name	RD	% Complete	Start	Finish			Jun 27							Jul 04							Jul 11							Jul 18						
						Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr		
17. Excavation and placement of materials into Pit #4		41d		29-Mar-21 A	30-Aug-21																														
17-1240	Excavate and Haul SWRP (Middle Zone Mining -All Phase A) Pit	10d	89%	29-Mar-21 A	16-Jul-21																														
17-1220	Excavate and Haul Pit 4 Overburden middle section	30d	77%	12-May-21 A	30-Aug-21																														
18. Complete Repair of South Pond		6d		23-Apr-21 A	12-Jul-21																														
18-1040	Support South Pond Pumping Station construction Commision So	6d	50%	23-Apr-21 A	12-Jul-21																														
20. Haul and place Cover material over the Pit#4 WCA		121d		29-Mar-21 A	23-May-22																														
20-1050	Haul Crushing and Screening Rejects Material to Pit#4	116d	4%	29-Mar-21 A	16-May-22																														
20-1060	Produce Geomembrane Bedding for Pit#4	116d	23%	29-Mar-21 A	16-May-22																														
20-1070	Haul Geomembrane Bedding to Stockpiles for Pit#4 Cap	121d	23%	29-Mar-21 A	23-May-22																														
26. Construct the new WTP and Pipeline for discharge		27d		07-Jun-21 A	10-Aug-21																														
26-3070	Erosion Control BMP's & Site Controls	1d	10%	07-Jun-21 A	02-Jul-21																														
26-3090	Material Staging & Pipe Fusing	27d	45%	07-Jun-21 A	10-Aug-21																														
26-1270	Place erosion control Best Management Practices on New Stockpi	0d	90%	07-Jun-21 A	02-Jul-21																														
26-3080	Clearing & Grubbing	10d	45%	18-Jun-21 A	16-Jul-21																														
26-3110	Begin at STA 14+63.53	0d	0%	02-Jul-21																															
26-3120	Install MH at STA 34+55	7d	0%	02-Jul-21	13-Jul-21																														
26-3130	Progress to STA 50+00	7d	0%	13-Jul-21	21-Jul-21																														
26-3360	18" Culvert Installation at West End Approach	1d	0%	19-Jul-21	19-Jul-21																														
26-3370	Roadway Subgrade Prep	5d	0%	20-Jul-21	26-Jul-21																														
26-3140	Progress to STA 66+00	6d	0%	22-Jul-21	29-Jul-21																														
26-3380	Ditch Shaping and Grading	4d	0%	27-Jul-21	30-Jul-21																														
27. Produce drain rock and other materials necessary for the sub-waste line		117d		29-Mar-21 A	17-May-22																														
27-1000	Produce Drain Gravel for Pit 3	117d	28%	29-Mar-21 A	17-May-22																														
27-1030	Haul Drain Gravel, Stockpile (301k cy)	117d	28%	29-Mar-21 A	17-May-22																														
27-1060	Produce Liner Bedding for Pit 3	20d	86%	28-Apr-21 A	30-Jul-21																														
27-1070	Haul Liner bedding to Stockpile for Pit 3 (15,000 cy)	20d	86%	28-Apr-21 A	30-Jul-21																														
28. Initiate construct of the Pit#3 sump including initial construction of unde		20d		03-May-21 A	30-Jul-21																														
28-1250	Install rock fall protection (PH 1)	18d	70%	03-May-21 A	28-Jul-21																														
28-1150	Route new temporary line from GW54 to South Pond	20d	50%	09-Jun-21 A	30-Jul-21																														